

INFORMATION SHEET

MUSCO FAMILY OLIVE COMPANY AND THE STUDLEY COMPANY CLASS II SURFACE IMPOUNDMENTS SAN JOAQUIN COUNTY

Musco Family Olive Company and the Studley Company (Discharger) operate an olive cannery near Tracy, San Joaquin County. The Tracy facility is equipped with 1,383 storage tanks ranging in size from 11,500-gallons to 17,000-gallons and 98 processing tanks that are 2,500-gallons each. Additional olives are stored at the Discharger's Orland facilities and are trucked to Tracy for processing. The facility has approximately 45,390 tons of storage capacity and an additional 10,000 tons can be processed fresh for a total storage capacity of approximately 55,390 tons. The facility can process approximately 1,000 tons per week for a total processing capacity of 52,000 tons per year. Actual processing is expected to average approximately 35,000 tons per year.

Olives are stored in an acetic acid solution prior to processing. Processing the olives requires immersing the raw olives in lye solutions to cure the olive, then drawing the lye out of the olives with successive baths of fresh water. The olives are pitted prior to canning in a brine (sodium chloride) solution. Processing occurs year round, with fresh olives processed from September through early November and stored olives processed the remainder of the year.

The Discharger discharges an average of 28,700 gallons per day (gpd) (10,476,500 million gallons per year) of process wastewater to two Class II surface impoundments referred to as Ponds A and B waste management units (Units). The facility also incorporates a one million-gallon storage pond, 84 million-gallon storage pond, and land application areas located around the facility, including adjacent to the surface impoundments. Process wastewater destined for land application is pumped to a clay-lined 1-MG earthen holding pond and subsequently discharged to the 84-MG reservoir and the land application system for treatment and disposal. WDRs Order No. R5-2002-0148 regulates these ponds as a wastewater treatment and disposal facility. A subsurface septic treatment system occupies the acreage northwest of Ponds A and B. The system automatically distributes sanitary wastewater from septic tanks via a 3-way distribution valve to three banks of leach fields.

The three streams directed to the surface impoundments are the flotation brine (~25,000 gpd), the softener ion-exchange regeneration stream (~1,100 gpd) and the boiler blowdown (~2,600 gpd). Spent lye that can no longer be recycled and excess brine from spillage from conveyor belts is directed via floor drains and sumps to the surface impoundments on an infrequent basis. Samples from the streams were analyzed for total dissolved solids (TDS), fixed dissolved solids (FDS), sodium, chloride, calcium, magnesium, total alkalinity, phosphorus, potassium, nitrate, sulfate, boron, total and soluble biological oxygen demand (BOD), oil and grease, and pH. These wastes are classified as designated under Title 27. Background concentration limits (CLs) for groundwater as Water Quality Protection Standards (WQPSs) for constituents of concern (COCs) have not been established at this time. CLs based on intra- or interwell analysis will be

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established once a sufficient number of groundwater quality results are available for statistical calculation.

The discharge poses a significant threat to water quality. Therefore, the discharge is a 'designated waste' and as such must be discharged to Class II Surface Impoundments as required by Title 27 CCR.

The designated beneficial uses of the groundwater, as specified in the Basin Plan, are domestic and municipal, agricultural, and industrial supply.

Local land use consists of industrial, residential, and agricultural operations. The site is located on an alluvial fan that generally slopes to the northeast. Topography varies from steep to nearly level. Surface drainage is toward a dry creek bed, which flows eastward toward the valley floor in the North Diablo Range Hydrologic Area (543.00) of the San Joaquin Hydrologic Basin. This creek bed does not empty into another waterway, but rather disappears on the valley floor east of the site.

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